

AMENDMENTS TO THE CLAIMS

Kindly amend the claims as follows:

Claims 1-9 (Cancelled)

10. (Previously Amended) A method of producing active factors comprising the steps of:

- C1
- (a) applying undifferentiated mammalian cells on a substrate;
 - (b) contacting the cells with a culture medium for a sufficient time to produce a matrix;
 - (c) contacting the cells with the culture medium for a sufficient time to produce active factors;
 - (d) removing the substrate and the matrix from the culture medium; and
 - (e) recovering the active factors from the culture medium.

Claims 11-12 (Cancelled)

13. (Previously Added) The method of claim 10, wherein the active factors comprise growth factors.

14. (Currently Amended) The method of claim 13, wherein the growth factors are selected from the group consisting of bone formation factors, ~~bone remodeling factors~~, cell proliferation factors and cell adhesion factors.

15. (Previously Added) The method of claim 10, wherein the matrix is a mineralized matrix or a non-mineralized matrix.

16. (Previously Added) The method of claim 10, wherein the undifferentiated mammalian cells comprise bone marrow cells.

17. (Previously Added) The method of claim 16, wherein the bone marrow cells comprise stromal cells.

18. (Previously Added) The method of claim 10, wherein the undifferentiated mammalian cells comprise autologous cells.

19. (Previously Added) The method of claim 10, wherein the undifferentiated mammalian cells are induced to differentiate by one or more inductors of differentiation.

C1 20. (Currently Amended) A method of producing bone growth factors comprising the steps of:

- (a) applying bone marrow cells on a substrate;
- (b) contacting the bone marrow cells with a culture medium for a sufficient time to produce bone growth factors; and
- (c) removing the substrate and the cells from the culture medium; and
- (e) (d) recovering the bone growth factors from the substrate culture medium.

21. (Previously Added) the method according to claim 20, wherein the bone marrow cells comprise stromal cells.

22. (Previously Added) The method according to claim 20, wherein the bone marrow cells comprise autologous bone marrow cells.

23. (Currently Amended) The method according to claim 20, wherein the bone growth factors are selected from the group consisting of bone formation factors, ~~bone remodeling factors~~, bone cell proliferation factors and bone cell adhesion factors.

24. (Previously Added) The method according to claim 20, wherein the bone marrow cells are induced to differentiate by one or more inductors of differentiation.

25. (Currently Amended) A method of producing growth factors comprising the steps of:

- (a) applying stromal cells on a substrate;
- (b) contacting the stromal cells with a culture medium for a sufficient time to produce growth factors; ~~and~~
- (c) removing the substrate and the cells from the culture medium; and
- (~~e~~) (d) recovering the growth factors from the ~~substrate~~ culture medium.

C1 26. (Previously Added) The method of claim 25, wherein the stromal cells comprise autologous stromal cells.

27. (Previously Added) The method of claim 25, wherein the stromal cells are introduced to differentiate by one or more inductors of differentiation.

28. (Currently Amended) The method of claim 25, wherein the growth factors are selected from the group consisting of bone formation factors, ~~bone remodeling factors~~, cell proliferation factors and cell adhesion factors.
